URS

September 21, 2011

Duke Energy
Miami Fort Generating Station
11021 Brower Road
North Bend, OH 45052

Attention: Ms. Tara Thomas
Environmental Coordinator

Re: Results – **September 2011**
Low-Level Mercury Sampling
Miami Fort Generating Station
North Bend, Ohio

In accordance with your request, URS prepared the following letter report transmitting low-level mercury test results for samples collected at the Miami Fort Generating Station located in North Bend, Ohio.

The scope of work involved the sampling of intake and discharge waters from the following sources and analysis of those samples for low-level mercury.

1. River Intake
2. Station 601 (WWT Influent)
   [Samples were collected at this station one detention time (approximately 14 hours as specified by Duke Energy) before samples collected at Outfall 608]
3. Outfall 608 (WWT Effluent)
   [Samples were collected at this outfall one detention time (approximately 14 hours as specified by Duke Energy) after samples collected at station 601]
4. Outfall 002 (Pond B Discharge)

Each sample was collected following the required Method 1669: *Sampling Ambient Water for Determination of Trace Metals at EPA Water Quality Criteria Levels* (Sampling Method) and analyzed by Method 1631. At the request of Duke Energy, total metal mercury samples were collected from Station 601 and analyzed by Method 7470A. Also at the request of Duke Energy, a dissolved low-level mercury sample was collected by Method 1669 from Outfall 608 and analyzed by Method 1631. The collected dissolved sample was filtered at the laboratory utilizing 0.45 micron filtration.

Field staff from URS' Cincinnati office conducted the sampling and TestAmerica Laboratories Inc. located in North Canton, Ohio performed the analytical procedures. The analytical procedures included the analyses of a collected sample and duplicate sample (duplicates collected at Station 601, Outfall 608, and Outfall 002), field blank (field blanks collected at the River Intake, Outfall 608, and Outfall 002), and trip blank.

URS Corporation
36 East 7th Street, Suite 2300
Cincinnati, OH 45202-4434
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The results from the **September 1 and 2, 2011** sampling event are presented in the attached Table 1. A copy of the laboratory report is enclosed with this letter.

--ooOoo--

URS is pleased to provide continued assistance to Duke Energy in the execution of their environmental monitoring requirements. If there are any questions regarding the content of this report, please do not hesitate to contact the undersigned.

Sincerely,

URS Corporation

Michael A. Wagner
Project Manager

Dennis P. Connair, C.P.G.
Principal

MAW/DPC/Duke Energy-MFS LL Hg 2011
Job No. 14949813

TABLE 1

ANALYTICAL RESULTS
LOW-LEVEL MERCURY
RIVER INTAKE, STATION 601, OUTFALL 608, AND OUTFALL 002 (POND B)

DUKE ENERGY - MIAMI FORT STATION
NORTH BEND, OHIO

	Date Sampled / Results (ng/L, parts per trillion)						
Sample ID	**11/1/10**	**12/1/10**	**1/5/11**	**2/1/11**	**3/1/11**	**4/4/11**	**5/23/11**
River Intake	1.1	3.0	9.7	2.1	15.4	<0.50	4.4
Station 601 (7)	408,000	380,000	315,000	88,200	22,500	132,000	UDFS
Station 601 (7)*	350,000	494,000	6,100	7,600	2,500	7,900	UDFS
Station 601 (7)* [duplicate]	378,000	489,000	6,100	Not Collected	4,100	5,900	UDFS
Station 601 (8)	247,000	184,000	UDFS	101,000	38,400	UDFS	150,000
Station 601 (8)*	104,000	490,000	UDFS	4,300	4,700	UDFS	200,000
Station 601 (8)*[duplicate]	Not Collected	Not Collected	UDFS	3,600	Not Collected	UDFS	190,000
Outfall 608	248	345	97.2	428	180	171	20
Outfall 608 [duplicate]	254	333	102	420	191	180	20
Outfall 608 [dissolved, 0.45 micron]	124	81.7	0.91	40.8	3.7	70.6	15
APB-002	2.9	4.0	3.8	5.3	3.7	0.62	2.1
APB-002 [duplicate]	3.0	3.6	3.4	5.0	4.1	1.3	2.2
Field Blank (RI-FB)	<0.50	<0.50	<0.50	<0.50	1.3	<0.50	<0.50
Field Blank (WWT-FB)	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Field Blank (AP-FB)	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Trip Blank	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50

Samples collected by URS
Samples analyzed by TestAmerica of North Canton, Ohio
UDFS - Unit down for service, no samples collected.
* = Total mercury analysis utilizing Method 7470A [results converted from ug/L (parts per billion) to ng/L]

TABLE 1 (continued)

Sample ID	Date Sampled / Results (ng/L, parts per trillion)						
	6/1/11	7/5/11	8/3/11	9/1/11	10/xx/2011	11/xx/2011	12/xx/2011
River Intake	1.5	1.8	1.7	1.0			
Station 601 (7)	UDFS	520,000	300,000	10,000			
Station 601 (7)*	UDFS	580,000	360,000	580,000			
Station 601 (7)* [duplicate]	UDFS	530,000	Not Collected	590,000			
Station 601 (8)	97,000	550,000	290,000**	13,000			
Station 601 (8) [duplicate]	Not Collected	Not Collected	320,000**	Not Collected			
Station 601 (8)*	280,000	510,000	410,000	9,400			
Station 601 (8)*[duplicate]	310,000	Not Collected	420,000	Not Collected			
Outfall 608	79	680	130	110			
Outfall 608 [duplicate]	82	670	140	110			
Outfall 608 [dissolved, 0.45 micron]	27	4.6	38	2.4			
APB-002	2.5	5.9	0.97	3.9			
APB-002 [duplicate]	<0.50	6.4	Not Collected	3.7			
Field Blank (RI-FB)	0.63	<0.50	0.92	<0.50			
Field Blank (WWT-FB)	<0.50	<0.50	<0.50	<0.50			
Field Blank (AP-FB)	<0.50	<0.50	<0.50	<0.50			
Trip Blank	<0.50	<0.50	<0.50	<0.50			

Samples collected by URS
Samples analyzed by TestAmerica of North Canton, Ohio
UDFS - Unit down for service, no samples collected.
* = Total mercury analysis utilizing Method 7470A [results converted from ug/L (parts per billion) to ng/L]
** = After collection of samples, URS was informed that both Units 7 and 8 were being processed through Station 601

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica North Canton
4101 Shuffel Street NW
North Canton, OH 44720
Tel: (330)497-9396

TestAmerica Job ID: 240-3529-1
Client Project/Site: Miami Fort Station

For:
Duke Energy Corporation
139 East Fourth Street
ex 510
Cincinnati, Ohio 45202

Attn: Ms. Sue Wallace

Denise Pohl

Authorized for release by:
09/16/2011 12:23:11 PM

Denise Pohl
Project Manager II
denise.pohl@testamericainc.com

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Table of Contents

Definitions/Glossary

Client: Duke Energy Corporation
Project/Site: Miami Fort Station

TestAmerica Job ID: 240-3529-1

Qualifiers

Metals

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
DL, RA, RE, IN	Indicates a Dilution, Reanalysis, Re-extraction, or additional Initial metals/anion analysis of the sample
EDL	Estimated Detection Limit (Dioxin)
EPA	United States Environmental Protection Agency
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
ND	Not detected at the reporting limit (or method detection limit if shown)
PQL	Practical Quantitation Limit
RL	Reporting Limit
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Job ID: 240-3529-1

Laboratory: TestAmerica North Canton

Narrative

CASE NARRATIVE

Client: Duke Energy Corporation

Project: Miami Fort Station

Report Number: 240-3529-1

With the exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. In addition all laboratory quality control samples were within established control limits, with any exceptions noted below. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In some cases, due to interference or analytes present at high concentrations, samples were diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

TestAmerica North Canton attests to the validity of the laboratory data generated by TestAmerica facilities reported herein. All analyses performed by TestAmerica facilities were done using established laboratory SOPs that incorporate QA/QC procedures described in the application methods. TestAmerica's operations groups have reviewed the data for compliance with the laboratory QA/QC plan, and data have been found to be compliant with laboratory protocols unless otherwise noted below.

The test results in this report meet all NELAP requirements for parameters for which accreditation is required or available. Any exceptions to NELAP requirements are noted in this report. Pursuant to NELAP, this report may not be reproduced, except in full, without the written approval of the laboratory.

Calculations are performed before rounding to avoid round-off errors in calculated results.

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the individual sections below.

All solid sample results are reported on an "as received" basis unless otherwise indicated by the presence of a % solids value in the method header.

This laboratory report is confidential and is intended for the sole use of TestAmerica and its client.

RECEIPT

The samples were received on 09/03/2011; the samples arrived in good condition. The temperature of the coolers at receipt was 19.9 C.

DISSOLVED LOW LEVEL MERCURY

Sample 608 WWT DISS (240-3529-11) was analyzed for dissolved low level mercury in accordance with EPA Method 1631E. The samples were prepared on 09/08/2011 and analyzed on 09/09/2011.

No difficulties were encountered during the mercury analysis.

All quality control parameters were within the acceptance limits.

TOTAL MERCURY

Samples 601(7)WWT TOT (240-3529-2), 601(7)WWT TOT DUP (240-3529-3) and 601(8)WWT TOT (240-3529-5) were analyzed for total mercury in accordance with EPA SW-846 Methods 7470A. The samples were analyzed on 09/13/2011 and 09/15/2011.

No difficulties were encountered during the mercury analyses.

All quality control parameters were within the acceptance limits.

Job ID: 240-3529-1 (Continued)

Laboratory: TestAmerica North Canton (Continued)

LOW LEVEL MERCURY

Samples 601(7)WWT (240-3529-1), 601(8)WWT (240-3529-4), RI FB (240-3529-6), RI (240-3529-7), 608 WWT FB (240-3529-8), 608 WWT (240-3529-9), 608 WWT DUP (240-3529-10), 002 FB (240-3529-12), 002 (240-3529-13), 002 DUP (240-3529-14) and TRIP BLANK (240-3529-15) were analyzed for Low Level Mercury in accordance with EPA Method 1631E. The samples were analyzed on 09/13/2011.

Samples 601(7)WWT (240-3529-1)[100X], 601(8)WWT (240-3529-4)[100X] and 608 WWT DUP (240-3529-10)[10X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

Method(s) 1631E: The following samples were diluted due to the abundance of target analytes: 601(7)WWT, 601(8)WWT, 608 WWT, 608 WWT DUP. Elevated reporting limits (RLs) are provided.

Method(s) 1631E: The following samples were received with 20-30% solids in each 40ml vial 601(7)WWT, 601(8)WWT. These samples were screened and analyzed multiple times with varrying results depending on if the samples were setttled or not. The values being reported came from aliquots were the solids have settled out and only the liquid ws analyzed.

Method(s) 1631E: The following samples were diluted due to the abundance of target analytes: 601(7)WWT, 601(8)WWT, 608 WWT, 608 WWT DUP. Elevated reporting limits (RLs) are provided.

No other difficulties were encountered during the mercury analyses.

All quality control parameters were within the acceptance limits.

Method Summary

Client: Duke Energy Corporation
Project/Site: Miami Fort Station

TestAmerica Job ID: 240-3529-1

Method	Method Description	Protocol	Laboratory
1631E	Mercury, Low Level (CVAFS)	EPA	TAL PEN
1631E	Mercury, Low Level (CVAFS)	EPA	TAL NC
7470A	Mercury (CVAA)	SW846	TAL NC

Protocol References:

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL NC = TestAmerica North Canton, 4101 Shuffel Street NW, North Canton, OH 44720, TEL (330)497-9396

TAL PEN = TestAmerica Pensacola, 3355 McLemore Drive, Pensacola, FL 32514, TEL (850)474-1001

Sample Summary

Client: Duke Energy Corporation
Project/Site: Miami Fort Station

TestAmerica Job ID: 240-3529-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
240-3529-1	601(7)WWT	Water	09/01/11 17:35	09/03/11 10:00
240-3529-2	601(7)WWT TOT	Water	09/01/11 17:40	09/03/11 10:00
240-3529-3	601(7)WWT TOT DUP	Water	09/01/11 17:45	09/03/11 10:00
240-3529-4	601(8)WWT	Water	09/01/11 17:55	09/03/11 10:00
240-3529-5	601(8)WWT TOT	Water	09/01/11 18:00	09/03/11 10:00
240-3529-6	RI FB	Water	09/01/11 17:10	09/03/11 10:00
240-3529-7	RI	Water	09/01/11 17:15	09/03/11 10:00
240-3529-8	608 WWT FB	Water	09/02/11 08:20	09/03/11 10:00
240-3529-9	608 WWT	Water	09/02/11 08:25	09/03/11 10:00
240-3529-10	608 WWT DUP	Water	09/02/11 08:30	09/03/11 10:00
240-3529-11	608 WWT DISS	Water	09/02/11 08:35	09/03/11 10:00
240-3529-12	002 FB	Water	09/02/11 08:50	09/03/11 10:00
240-3529-13	002	Water	09/02/11 08:55	09/03/11 10:00
240-3529-14	002 DUP	Water	09/02/11 09:00	09/03/11 10:00
240-3529-15	TRIP BLANK	Water	09/02/11 00:00	09/03/11 10:00

Detection Summary

Client: Duke Energy Corporation
Project/Site: Miami Fort Station

TestAmerica Job ID: 240-3529-1

Client Sample ID: 601(7)WWT — Lab Sample ID: 240-3529-1

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Hg - DL	10000		5000		ng/L	100		1631E	Total/NA

Client Sample ID: 601(7)WWT TOT — Lab Sample ID: 240-3529-2

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Mercury	580		20		ug/L	1		7470A	Total/NA

Client Sample ID: 601(7)WWT TOT DUP — Lab Sample ID: 240-3529-3

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Mercury	590		20		ug/L	1		7470A	Total/NA

Client Sample ID: 601(8)WWT — Lab Sample ID: 240-3529-4

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Hg - DL	13000		5000		ng/L	100		1631E	Total/NA

Client Sample ID: 601(8)WWT TOT — Lab Sample ID: 240-3529-5

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Mercury	9.4		0.20		ug/L	1		7470A	Total/NA

Client Sample ID: RI FB — Lab Sample ID: 240-3529-6

No Detections

Client Sample ID: RI — Lab Sample ID: 240-3529-7

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Hg	1.0		0.50		ng/L	1		1631E	Total/NA

Client Sample ID: 608 WWT FB — Lab Sample ID: 240-3529-8

No Detections

Client Sample ID: 608 WWT — Lab Sample ID: 240-3529-9

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Hg	110		5.0		ng/L	1		1631E	Total/NA

Client Sample ID: 608 WWT DUP — Lab Sample ID: 240-3529-10

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Hg - DL	110		5.0		ng/L	10		1631E	Total/NA

Client Sample ID: 608 WWT DISS — Lab Sample ID: 240-3529-11

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Mercury	2.4		0.50		ng/L	1		1631E	Dissolved

Client Sample ID: 002 FB — Lab Sample ID: 240-3529-12

No Detections

Detection Summary

Client: Duke Energy Corporation
Project/Site: Miami Fort Station

TestAmerica Job ID: 240-3529-1

Client Sample ID: 002 — Lab Sample ID: 240-3529-13

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Hg	3.9		0.50		ng/L	1		1631E	Total/NA

Client Sample ID: 002 DUP — Lab Sample ID: 240-3529-14

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Hg	3.7		0.50		ng/L	1		1631E	Total/NA

Client Sample ID: TRIP BLANK — Lab Sample ID: 240-3529-15

No Detections

Client: Duke Energy Corporation
Project/Site: Miami Fort Station

TestAmerica Job ID: 240-3529-1

Client Sample ID: 601(7)WWT

Lab Sample ID: 240-3529-1
Matrix: Water
Date Collected: 09/01/11 17:35
Date Received: 09/03/11 10:00

Method: 1631E - Mercury, Low Level (CVAFS) - DL

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Hg	10000		5000		ng/L		09/12/11 14:15	09/13/11 12:42	100

Client Sample ID: 601(7)WWT TOT

Lab Sample ID: 240-3529-2
Matrix: Water
Date Collected: 09/01/11 17:40
Date Received: 09/03/11 10:00

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Mercury	580		20		ug/L		09/14/11 14:55	09/15/11 13:52	1

Client Sample ID: 601(7)WWT TOT DUP

Lab Sample ID: 240-3529-3
Matrix: Water
Date Collected: 09/01/11 17:45
Date Received: 09/03/11 10:00

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Mercury	590		20		ug/L		09/14/11 14:55	09/15/11 13:54	1

Client Sample ID: 601(8)WWT

Lab Sample ID: 240-3529-4
Matrix: Water
Date Collected: 09/01/11 17:55
Date Received: 09/03/11 10:00

Method: 1631E - Mercury, Low Level (CVAFS) - DL

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Hg	13000		5000		ng/L		09/12/11 14:15	09/13/11 12:50	100

Client Sample ID: 601(8)WWT TOT

Lab Sample ID: 240-3529-5
Matrix: Water
Date Collected: 09/01/11 18:00
Date Received: 09/03/11 10:00

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Mercury	9.4		0.20		ug/L		09/12/11 15:00	09/13/11 09:35	1

Client Sample ID: RI FB

Lab Sample ID: 240-3529-6
Matrix: Water
Date Collected: 09/01/11 17:10
Date Received: 09/03/11 10:00

Method: 1631E - Mercury, Low Level (CVAFS)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Hg	0.50	U	0.50		ng/L		09/12/11 14:15	09/13/11 12:08	1

Client: Duke Energy Corporation
Project/Site: Miami Fort Station

TestAmerica Job ID: 240-3529-1

Client Sample ID: RI — **Lab Sample ID: 240-3529-7**
Date Collected: 09/01/11 17:15 — **Matrix: Water**
Date Received: 09/03/11 10:00

Method: 1631E - Mercury, Low Level (CVAFS)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Hg	1.0		0.50		ng/L		09/12/11 14:15	09/13/11 12:16	1

Client Sample ID: 608 WWT FB — **Lab Sample ID: 240-3529-8**
Date Collected: 09/02/11 08:20 — **Matrix: Water**
Date Received: 09/03/11 10:00

Method: 1631E - Mercury, Low Level (CVAFS)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Hg	0.50	U	0.50		ng/L		09/12/11 14:15	09/13/11 12:58	1

Client Sample ID: 608 WWT — **Lab Sample ID: 240-3529-9**
Date Collected: 09/02/11 08:25 — **Matrix: Water**
Date Received: 09/03/11 10:00

Method: 1631E - Mercury, Low Level (CVAFS)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Hg	110		5.0		ng/L		09/12/11 14:15	09/13/11 15:56	1

Client Sample ID: 608 WWT DUP — **Lab Sample ID: 240-3529-10**
Date Collected: 09/02/11 08:30 — **Matrix: Water**
Date Received: 09/03/11 10:00

Method: 1631E - Mercury, Low Level (CVAFS) - DL

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Hg	110		5.0		ng/L		09/12/11 14:15	09/13/11 16:19	10

Client Sample ID: 608 WWT DISS — **Lab Sample ID: 240-3529-11**
Date Collected: 09/02/11 08:35 — **Matrix: Water**
Date Received: 09/03/11 10:00

Method: 1631E - Mercury, Low Level (CVAFS) - Dissolved

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Mercury	2.4		0.50		ng/L		09/08/11 13:54	09/09/11 09:36	1

Client Sample ID: 002 FB — **Lab Sample ID: 240-3529-12**
Date Collected: 09/02/11 08:50 — **Matrix: Water**
Date Received: 09/03/11 10:00

Method: 1631E - Mercury, Low Level (CVAFS)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Hg	0.50	U	0.50		ng/L		09/12/11 14:15	09/13/11 13:22	1

Client: Duke Energy Corporation
Project/Site: Miami Fort Station

TestAmerica Job ID: 240-3529-1

Client Sample ID: 002 — **Lab Sample ID: 240-3529-13**
Date Collected: 09/02/11 08:55 — **Matrix: Water**
Date Received: 09/03/11 10:00

Method: 1631E - Mercury, Low Level (CVAFS)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Hg	3.9		0.50		ng/L		09/12/11 14:15	09/13/11 13:30	1

Client Sample ID: 002 DUP — **Lab Sample ID: 240-3529-14**
Date Collected: 09/02/11 09:00 — **Matrix: Water**
Date Received: 09/03/11 10:00

Method: 1631E - Mercury, Low Level (CVAFS)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Hg	3.7		0.50		ng/L		09/09/11 10:45	09/13/11 13:37	1

Client Sample ID: TRIP BLANK — **Lab Sample ID: 240-3529-15**
Date Collected: 09/02/11 00:00 — **Matrix: Water**
Date Received: 09/03/11 10:00

Method: 1631E - Mercury, Low Level (CVAFS)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Hg	0.50	U	0.50		ng/L		09/09/11 10:45	09/13/11 13:45	1

Method: 1631E - Mercury, Low Level (CVAFS)

Lab Sample ID: MB 400-139062/1-A — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 139148 — **Prep Batch: 139062**

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Hg	0.50	U	0.50		ng/L		09/13/11 07:36	09/13/11 11:13	1

Lab Sample ID: LCS 400-139062/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 139148 — **Prep Batch: 139062**

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	% Rec. Limits		
Hg			5.00	4.98		ng/L		100	79 - 121		

Lab Sample ID: LCSD 400-139062/3-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 139148 — **Prep Batch: 139062**

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	% Rec	% Rec. Limits	RPD	RPD Limit
Hg			5.00	5.07		ng/L		102	79 - 121	2	20

Lab Sample ID: 240-3529-9 MS — **Client Sample ID: 608 WWT**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 139148 — **Prep Batch: 139062**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	% Rec	% Rec. Limits		
Hg	110		25.0	134		ng/L		92	71 - 125		

Lab Sample ID: 240-3529-9 MSD — **Client Sample ID: 608 WWT**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 139148 — **Prep Batch: 139062**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	% Rec	% Rec. Limits	RPD	RPD Limit
Hg	110		25.0	138		ng/L		108	71 - 125	3	24

Lab Sample ID: MB 240-14725/1-A — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 14869 — **Prep Batch: 14725**

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.50	U	0.50		ng/L		09/08/11 13:54	09/09/11 10:02	1

Lab Sample ID: LCS 240-14725/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 14869 — **Prep Batch: 14725**

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	% Rec. Limits		
Mercury			5.00	4.74		ng/L		95	77 - 125		

Lab Sample ID: PB 240-14722/1-B PB — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Dissolved**
Analysis Batch: 14869 — **Prep Batch: 14725**

Analyte	PB Result	PB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.50	U	0.50		ng/L		09/08/11 13:54	09/09/11 09:44	1

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 240-14994/1-A
Matrix: Water
Analysis Batch: 15213

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 14994

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.20	U	0.20		ug/L		09/12/11 15:00	09/13/11 09:26	1

Lab Sample ID: LCS 240-14994/2-A
Matrix: Water
Analysis Batch: 15213

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 14994

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	% Rec. Limits		
Mercury			5.00	4.67		ug/L		93	81 - 123		

Lab Sample ID: MB 240-15257/1-A
Matrix: Water
Analysis Batch: 15549

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 15257

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.20	U	0.20		ug/L		09/14/11 14:55	09/15/11 13:19	1

Lab Sample ID: LCS 240-15257/2-A
Matrix: Water
Analysis Batch: 15549

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 15257

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	% Rec. Limits		
Mercury			5.00	4.83		ug/L		97	81 - 123		

Metals

Prep Batch: 14725

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-3529-11	608 WWT DISS	Dissolved	Water	1631E	
LCS 240-14725/2-A	Lab Control Sample	Total/NA	Water	1631E	
MB 240-14725/1-A	Method Blank	Total/NA	Water	1631E	
PB 240-14722/1-B PB	Method Blank	Dissolved	Water	1631E	

Analysis Batch: 14869

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-3529-11	608 WWT DISS	Dissolved	Water	1631E	14725
LCS 240-14725/2-A	Lab Control Sample	Total/NA	Water	1631E	14725
MB 240-14725/1-A	Method Blank	Total/NA	Water	1631E	14725
PB 240-14722/1-B PB	Method Blank	Dissolved	Water	1631E	14725

Prep Batch: 14994

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-3529-5	601(8)WWT TOT	Total/NA	Water	7470A	
LCS 240-14994/2-A	Lab Control Sample	Total/NA	Water	7470A	
MB 240-14994/1-A	Method Blank	Total/NA	Water	7470A	

Analysis Batch: 15213

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-3529-5	601(8)WWT TOT	Total/NA	Water	7470A	14994
LCS 240-14994/2-A	Lab Control Sample	Total/NA	Water	7470A	14994
MB 240-14994/1-A	Method Blank	Total/NA	Water	7470A	14994

Prep Batch: 15257

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-3529-2	601(7)WWT TOT	Total/NA	Water	7470A	
240-3529-3	601(7)WWT TOT DUP	Total/NA	Water	7470A	
LCS 240-15257/2-A	Lab Control Sample	Total/NA	Water	7470A	
MB 240-15257/1-A	Method Blank	Total/NA	Water	7470A	

Analysis Batch: 15549

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-3529-2	601(7)WWT TOT	Total/NA	Water	7470A	15257
240-3529-3	601(7)WWT TOT DUP	Total/NA	Water	7470A	15257
LCS 240-15257/2-A	Lab Control Sample	Total/NA	Water	7470A	15257
MB 240-15257/1-A	Method Blank	Total/NA	Water	7470A	15257

Prep Batch: 139062

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-3529-1 - DL	601(7)WWT	Total/NA	Water	1631E	
240-3529-4 - DL	601(8)WWT	Total/NA	Water	1631E	
240-3529-6	RI FB	Total/NA	Water	1631E	
240-3529-7	RI	Total/NA	Water	1631E	
240-3529-8	608 WWT FB	Total/NA	Water	1631E	
240-3529-9	608 WWT	Total/NA	Water	1631E	
240-3529-9 MS	608 WWT	Total/NA	Water	1631E	
240-3529-9 MSD	608 WWT	Total/NA	Water	1631E	
240-3529-10 - DL	608 WWT DUP	Total/NA	Water	1631E	
240-3529-12	002 FB	Total/NA	Water	1631E	
240-3529-13	002	Total/NA	Water	1631E	
240-3529-14	002 DUP	Total/NA	Water	1631E	

Metals (Continued)

Prep Batch: 139062 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-3529-15	TRIP BLANK	Total/NA	Water	1631E	
LCS 400-139062/2-A	Lab Control Sample	Total/NA	Water	1631E	
LCSD 400-139062/3-A	Lab Control Sample Dup	Total/NA	Water	1631E	
MB 400-139062/1-A	Method Blank	Total/NA	Water	1631E	

Analysis Batch: 139148

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-3529-1 - DL	601(7)WWT	Total/NA	Water	1631E	139062
240-3529-4 - DL	601(8)WWT	Total/NA	Water	1631E	139062
240-3529-6	RI FB	Total/NA	Water	1631E	139062
240-3529-7	RI	Total/NA	Water	1631E	139062
240-3529-8	608 WWT FB	Total/NA	Water	1631E	139062
240-3529-9	608 WWT	Total/NA	Water	1631E	139062
240-3529-9 MS	608 WWT	Total/NA	Water	1631E	139062
240-3529-9 MSD	608 WWT	Total/NA	Water	1631E	139062
240-3529-10 - DL	608 WWT DUP	Total/NA	Water	1631E	139062
240-3529-12	002 FB	Total/NA	Water	1631E	139062
240-3529-13	002	Total/NA	Water	1631E	139062
240-3529-14	002 DUP	Total/NA	Water	1631E	139062
240-3529-15	TRIP BLANK	Total/NA	Water	1631E	139062
LCS 400-139062/2-A	Lab Control Sample	Total/NA	Water	1631E	139062
LCSD 400-139062/3-A	Lab Control Sample Dup	Total/NA	Water	1631E	139062
MB 400-139062/1-A	Method Blank	Total/NA	Water	1631E	139062

Lab Chronicle

Client: Duke Energy Corporation
Project/Site: Miami Fort Station

TestAmerica Job ID: 240-3529-1

Client Sample ID: 601(7)WWT — Lab Sample ID: 240-3529-1

Date Collected: 09/01/11 17:35 — **Matrix: Water**
Date Received: 09/03/11 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total/NA	Prep	1631E	DL		139062	09/12/11 14:15	BG	TAL PEN
Total/NA	Analysis	1631E	DL	100	139148	09/13/11 12:42	BG	TAL PEN

Client Sample ID: 601(7)WWT TOT — Lab Sample ID: 240-3529-2

Date Collected: 09/01/11 17:40 — **Matrix: Water**
Date Received: 09/03/11 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total/NA	Prep	7470A			15257	09/14/11 14:55	LM	TAL NC
Total/NA	Analysis	7470A		1	15549	09/15/11 13:52	AS	TAL NC

Client Sample ID: 601(7)WWT TOT DUP — Lab Sample ID: 240-3529-3

Date Collected: 09/01/11 17:45 — **Matrix: Water**
Date Received: 09/03/11 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total/NA	Prep	7470A			15257	09/14/11 14:55	LM	TAL NC
Total/NA	Analysis	7470A		1	15549	09/15/11 13:54	AS	TAL NC

Client Sample ID: 601(8)WWT — Lab Sample ID: 240-3529-4

Date Collected: 09/01/11 17:55 — **Matrix: Water**
Date Received: 09/03/11 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total/NA	Prep	1631E	DL		139062	09/12/11 14:15	BG	TAL PEN
Total/NA	Analysis	1631E	DL	100	139148	09/13/11 12:50	BG	TAL PEN

Client Sample ID: 601(8)WWT TOT — Lab Sample ID: 240-3529-5

Date Collected: 09/01/11 18:00 — **Matrix: Water**
Date Received: 09/03/11 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total/NA	Prep	7470A			14994	09/12/11 15:00	LM	TAL NC
Total/NA	Analysis	7470A		1	15213	09/13/11 09:35	AS	TAL NC

Client Sample ID: RI FB — Lab Sample ID: 240-3529-6

Date Collected: 09/01/11 17:10 — **Matrix: Water**
Date Received: 09/03/11 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total/NA	Prep	1631E			139062	09/12/11 14:15	BG	TAL PEN
Total/NA	Analysis	1631E		1	139148	09/13/11 12:08	BG	TAL PEN

Lab Chronicle

Client: Duke Energy Corporation
Project/Site: Miami Fort Station

TestAmerica Job ID: 240-3529-1

Client Sample ID: RI

Lab Sample ID: 240-3529-7

Date Collected: 09/01/11 17:15
Matrix: Water
Date Received: 09/03/11 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total/NA	Prep	1631E			139062	09/12/11 14:15	BG	TAL PEN
Total/NA	Analysis	1631E		1	139148	09/13/11 12:16	BG	TAL PEN

Client Sample ID: 608 WWT FB

Lab Sample ID: 240-3529-8

Date Collected: 09/02/11 08:20
Matrix: Water
Date Received: 09/03/11 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total/NA	Prep	1631E			139062	09/12/11 14:15	BG	TAL PEN
Total/NA	Analysis	1631E		1	139148	09/13/11 12:58	BG	TAL PEN

Client Sample ID: 608 WWT

Lab Sample ID: 240-3529-9

Date Collected: 09/02/11 08:25
Matrix: Water
Date Received: 09/03/11 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total/NA	Prep	1631E			139062	09/12/11 14:15	BG	TAL PEN
Total/NA	Analysis	1631E		1	139148	09/13/11 15:56	BG	TAL PEN

Client Sample ID: 608 WWT DUP

Lab Sample ID: 240-3529-10

Date Collected: 09/02/11 08:30
Matrix: Water
Date Received: 09/03/11 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total/NA	Prep	1631E	DL		139062	09/12/11 14:15	BG	TAL PEN
Total/NA	Analysis	1631E	DL	10	139148	09/13/11 16:19	BG	TAL PEN

Client Sample ID: 608 WWT DISS

Lab Sample ID: 240-3529-11

Date Collected: 09/02/11 08:35
Matrix: Water
Date Received: 09/03/11 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
Dissolved	Prep	1631E			14725	09/08/11 13:54	CJ	TAL NC
Dissolved	Analysis	1631E		1	14869	09/09/11 09:36	CJ	TAL NC

Client Sample ID: 002 FB

Lab Sample ID: 240-3529-12

Date Collected: 09/02/11 08:50
Matrix: Water
Date Received: 09/03/11 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total/NA	Prep	1631E			139062	09/12/11 14:15	BG	TAL PEN
Total/NA	Analysis	1631E		1	139148	09/13/11 13:22	BG	TAL PEN

Lab Chronicle

Client: Duke Energy Corporation
Project/Site: Miami Fort Station

TestAmerica Job ID: 240-3529-1

Client Sample ID: 002

Lab Sample ID: 240-3529-13

Date Collected: 09/02/11 08:55

Matrix: Water

Date Received: 09/03/11 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total/NA	Prep	1631E			139062	09/12/11 14:15	BG	TAL PEN
Total/NA	Analysis	1631E		1	139148	09/13/11 13:30	BG	TAL PEN

Client Sample ID: 002 DUP

Lab Sample ID: 240-3529-14

Date Collected: 09/02/11 09:00

Matrix: Water

Date Received: 09/03/11 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total/NA	Prep	1631E			139062	09/09/11 10:45	BG	TAL PEN
Total/NA	Analysis	1631E		1	139148	09/13/11 13:37	BG	TAL PEN

Client Sample ID: TRIP BLANK

Lab Sample ID: 240-3529-15

Date Collected: 09/02/11 00:00

Matrix: Water

Date Received: 09/03/11 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total/NA	Prep	1631E			139062	09/09/11 10:45	BG	TAL PEN
Total/NA	Analysis	1631E		1	139148	09/13/11 13:45	BG	TAL PEN

Laboratory References:

TAL NC = TestAmerica North Canton, 4101 Shuffel Street NW, North Canton, OH 44720, TEL (330)497-9396

TAL PEN = TestAmerica Pensacola, 3355 McLemore Drive, Pensacola, FL 32514, TEL (850)474-1001

Certification Summary

Client: Duke Energy Corporation
Project/Site: Miami Fort Station

TestAmerica Job ID: 240-3529-1

Laboratory	Authority	Program	EPA Region	Certification ID
TestAmerica North Canton	ACLASS	DoD ELAP		ADE-1437
TestAmerica North Canton	California	NELAC	9	01144CA
TestAmerica North Canton	Connecticut	State Program	1	PH-0590
TestAmerica North Canton	Florida	NELAC	4	E87225
TestAmerica North Canton	Georgia	Georgia EPD	4	N/A
TestAmerica North Canton	Illinois	NELAC	5	200004
TestAmerica North Canton	Kansas	NELAC	7	E-10336
TestAmerica North Canton	Kentucky	State Program	4	58
TestAmerica North Canton	Minnesota	NELAC	5	039-999-348
TestAmerica North Canton	Nevada	State Program	9	OH-000482008A
TestAmerica North Canton	New Jersey	NELAC	2	OH001
TestAmerica North Canton	New York	NELAC	2	10975
TestAmerica North Canton	Ohio	OVAP	5	CL0024
TestAmerica North Canton	Pennsylvania	NELAC	3	68-00340
TestAmerica North Canton	USDA	USDA		P330-11-00328
TestAmerica North Canton	West Virginia	West Virginia DEP	3	210
TestAmerica North Canton	Wisconsin	State Program	5	999518190
TestAmerica Pensacola	Alabama	State Program	4	40150
TestAmerica Pensacola	Arizona	State Program	9	AZ0710
TestAmerica Pensacola	Arkansas	State Program	6	88-0689
TestAmerica Pensacola	Florida	NELAC	4	E81010
TestAmerica Pensacola	Georgia	Georgia EPD	4	N/A
TestAmerica Pensacola	Illinois	NELAC	5	200041
TestAmerica Pensacola	Iowa	State Program	7	367
TestAmerica Pensacola	Kansas	NELAC	7	E-10253
TestAmerica Pensacola	Kentucky	Kentucky UST	4	53
TestAmerica Pensacola	Louisiana	NELAC	6	30976
TestAmerica Pensacola	Maryland	State Program	3	233
TestAmerica Pensacola	Massachusetts	State Program	1	M-FL094
TestAmerica Pensacola	Michigan	State Program	5	9912
TestAmerica Pensacola	New Hampshire	NELAC	1	2505
TestAmerica Pensacola	New Jersey	NELAC	2	FL006
TestAmerica Pensacola	North Carolina	North Carolina DENR	4	314
TestAmerica Pensacola	Oklahoma	State Program	6	9810
TestAmerica Pensacola	Pennsylvania	NELAC	3	68-00467
TestAmerica Pensacola	Rhode Island	State Program	1	LAO00307
TestAmerica Pensacola	South Carolina	State Program	4	96026
TestAmerica Pensacola	Tennessee	State Program	4	TN02907
TestAmerica Pensacola	Texas	NELAC	6	T104704286-09-1
TestAmerica Pensacola	USDA	USDA		P330-10-00407
TestAmerica Pensacola	Virginia	NELAC	3	918
TestAmerica Pensacola	Washington	State Program	10	C915
TestAmerica Pensacola	West Virginia	West Virginia DEP	3	136

Accreditation may not be offered or required for all methods and analytes reported in this package. Please contact your project manager for the laboratory's current list of certified methods and analytes.

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratory location: _____
Regulatory program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other _____

TestAmerica Laboratories, Inc.

Client Contact				
Company Name: DUKE ENERGY	Client Project Manager: Mike Wagner	Site Contact: Jim - SRS	Lab Contact:	COC No: 021170
Address: MIAMI FORT STATION	Telephone: 513 651 3440	Telephone:	Telephone:	1 of 2 COCs
City/State/Zip: N. BEND, OH.	Email: mike-wagner@urscorp.com	Analysis Turnaround Time (in BUS days)	Analyses	For lab use only
Phone: (513) 651-3440 (URS)		TAT if different from below ☐ 3 weeks ☐ 2 weeks ☐ 1 week ☐ 2 days ☐ 1 day		Walk-in client ☐ Lab pickup ☐ Lab sampling ☐
Project Name: DUKE MF LLHg 2011	Method of Shipment/Carrier:			Job/SDG No.
Project Number: 149498.13	Shipping/Tracking No:			
P O #				

Sample Identification	Sample Date	Sample Time	Matrix: Air	Aqueous	Sediment	Solid	Other:	Containers & Preservatives: H2SO4	HNO3	HCl	NaOH	ZnAc/ NaOH	Unpres	Other:	Filtered Sample (Y / N)	Composite C / Grab G	LL Hg	TOT Hg	Sample Specific Notes / Special Instructions:
601(7) WWT	9/1/11	1735		X									4		N	G	K		
601(7) WWT TOT		1740		X					1									X	
601(7) WWT TOT DUP		1745		X					1									K	
601 (8) WWT		1755		X									4				K		
601 (8) WWT TOT		1800		X					1									K	
RI FB		1710		X									2				K		
RI		1715		X									4				K		
608 WWT FB	9/2/11	0820		X									2				K		
609 WWT		0825		X									3				K		
608 WWT DUP		0830		X									4				K		

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☑ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return to Client ☒ Disposal By Lab ☐ Archive For _____ Months

Special Instructions/QC Requirements & Comments:

Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
(URS)	09-02-11	1035		TestAmerica	9/2/11 1035
Relinquished by:	Company: TestAmerica	Date/Time: 9/2/11 1035	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received by/Laboratory by:	Company: TA	Date/Time: 9/3/11 0745

TAL 0018- 1 (04/10) 1000

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratory location: _____
Regulatory program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other _____

TestAmerica Laboratories, Inc.

Client Contact				
Company Name: DUKE ENERGY	Client Project Manager: M. WAGNER (URS)	Site Contact: JM1 - SRB	Lab Contact:	COC No: 021171
Address: MIAMI FORT STN.	Telephone: 513 651-3440	Telephone:	Telephone:	2 of 2 COCs
City/State/Zip: N. BEND, OH.	Email: mike-wagner@urscorp.com	Analysis Turnaround Time (in BUS days)	Analyses	For lab use only
Phone:		TAT if different from below STAND.		Walk-in client ☐
Project Name: DUKE MF LL Hg 2011	Method of Shipment/Carrier:	☐ 3 weeks ☐ 2 weeks ☐ 1 week ☐ 2 days ☐ 1 day		Lab pickup ☐ Lab sampling ☐
Project Number: 14949813	Shipping/Tracking No:			Job/SDG No:
PO #				

Sample Identification	Sample Date	Sample Time	Matrix: Air	Aqueous	Sediment	Solid	Other:	Containers & Preservatives: H2SO4	HNO3	HCl	NaOH	ZnAc/ NaOH	Unpres	Other:	Filtered Sample (Y/N)	Composite=C / Grab=G	LL Hg	LL Hg Dissolved	Sample Specific Notes / Special Instructions:
008 WWT DISS	9/2/11	0835		X									4		N	G	X	X	
002 FB		0850		X									2				X		
002		0855		X									4				X		
002 DUP		0900		X									4				X		
TRIP BLANK	—			X									2				X		

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☒ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return to Client ☒ Disposal By Lab ☐ Archive For _____ Months

Special Instructions/QC Requirements & Comments:

	Company:	Date/Time:		Company:	Date/Time:
Relinquished by: [signature] / URS	9-2-11	1035	Received by: [signature]	TestAmerica	9/2/11 1035
Relinquished by: [signature]	TestAmerica	9/2/11 1035	Received by: [signature]		
Relinquished by:			Received in Laboratory by: [signature]	TA	9/3/11 945

09/16/2011

Analytical Laboratory Request Form (ARF)

(1) Complete all yellow sections of this form. Move through by striking the "TAB" key.	
(2) Save the file & e-mail to:	labcustomer@duke-energy.com
Questions / Problems Call:	704-875-5245

Customer Information

Name	Office Phone	Cell Phone
Mike Wagner	513 651 3440	NA
Fax	**e-Mail Address**	
513 651 3452	mike_wagner@urscorp.com	

Accounting Fields

*** Only complete if specific charging to capital or other special projects is needed. Include field type and specific field entry. ***	Field Type	Specific Field

Sampling Information

Sampling Personnel / Contractor	Scheduled Sampling Date	Date Sample Kit Needed
URS Field Staff Geologist / URS	9/1/2011	8/30/2011

Shipping Address for Kit

Name	Phone	Mail Code
Mike Wagner	513 651 3440	NA
Street Address - street address and town needed	**State**	**Zip Code**
36 East 7th Street suite 2300, Cincinnati, Ohio 45202	Ohio	45202

Reporting

Report Due Date	Additional Reports - .pdf file w/ Basic QC and EDD (spreadsheet) is Standard	
9/30/2011	Standard	
Report To (e-Mail Address 1)	**Report To (e-Mail Address 2)**	**Report to (e-Mail Address 3)**
mike_wagner@urscorp.com	tara.thomas@duke-energy.com	sue.wallace@duke-energy.com

Project Specifics

Project Name		Program Type
Miami Fort LL Hg 2011		NPDES Monitoring
Site, Location or Station	**State**	**Approximate Number of Days Sampling is Scheduled**
Miami Fort Station, Hamilton Co.	Ohio	2

Notes, Special Requests, Required Contract Lab to use, etc. **(LIMS Job Number-Duke Lab Provides)**

Sample kit to be issued from TestAmerica - North Canton, Ohio (contact - Denise Pohl) Note - Data report (prepared by URS) due to Miami Fort Station by end of month of sampling. September 2011 Event

Bottles	Matrix	Variables, Methods
7 (four vial package)	water	LL Hg (collected by method 1669, analysis by Method 1631)
1 (four vial package)	water	Dissolved LL Hg (0.45 micron, filtered at laboratory)(collected by method 1669, analysis by Method 1631)
3 field blanks	water	LL Hg (collected by method 1669, analysis by Method 1631)
1 trip blank	water	LL Hg (Method 1631)
3	water	Total Hg (Method 7470A)

Jan 09

TestAmerica Cooler Receipt Form/Narrative **Lot Number:**_____
North Canton Facility

Client Duke Energy Project MF LLHg By: (Signature)
Cooler Received on 9/3/11 Opened on 9/6/11
FedEx ☐ UPS ☐ DHL ☐ FAS ☐ Stetson ☒ Client Drop Off ☐ TestAmerica Courier ☐ Other_____
TestAmerica Cooler # S206 Multiple Coolers ☐ Foam Box ☐ Client Cooler ☐ Other_____

1. Were custody seals on the outside of the cooler(s)? Yes ☒ No ☐ Intact? Yes ☒ No ☐ NA ☐
   If YES, Quantity 1 Quantity Unsalvageable_____
   Were custody seals on the outside of cooler(s) signed and dated? Yes ☒ No ☐ NA ☐
   Were custody seals on the bottle(s)? Yes ☐ No ☒
   If YES, are there any exceptions? _____
2. Shippers' packing slip attached to the cooler(s)? Yes ☐ No ☒
3. Did custody papers accompany the sample(s)? Yes ☒ No ☐ Relinquished by client? Yes ☒ No ☐
4. Were the custody papers signed in the appropriate place? Yes ☒ No ☐
5. Packing material used: Bubble Wrap ☒ Foam ☒ None ☐ Other _____
6. Cooler temperature upon receipt 19.9 °C See back of form for multiple coolers/temps ☐
   METHOD: IR ☒ Other ☐ _____
   COOLANT: Wet Ice ☐ Blue Ice ☐ Dry Ice ☐ Water ☐ None ☒
7. Did all bottles arrive in good condition (Unbroken)? Yes ☒ No ☐
8. Could all bottle labels be reconciled with the COC? Yes ☒ No ☐
9. Were sample(s) at the correct pH upon receipt? Yes ☐ No ☒ NA ☐
10. Were correct bottle(s) used for the test(s) indicated? Yes ☒ No ☐
11. Were air bubbles >6 mm in any VOA vials? Yes ☐ No ☐ NA ☒
12. Sufficient quantity received to perform indicated analyses? Yes ☒ No ☐
13. Was a trip blank present in the cooler(s)? Yes ☐ No ☒ Were VOAs on the COC? Yes ☐ No ☒

Contacted PM _____ Date _____ by _____ via Verbal ☐ Voice Mail ☐ Other ☐
Concerning _____

14. CHAIN OF CUSTODY

The following discrepancies occurred:
high temp - OK - metals + CLHg

15. SAMPLE CONDITION

Sample(s) _____ were received after the recommended holding time had expired.
Sample(s) _____ were received in a broken container.
Sample(s) _____ were received with bubble >6 mm in diameter. (Notify PM)

16. SAMPLE PRESERVATION

Sample(s) 601(7), 601(7)... DUP & 601(8) w/ HNO_3 were further preserved in Sample Receiving to meet recommended pH level(s). *Nitric Acid Lot#* 100110-HNO_3; *Sulfuric Acid Lot#* 110410-H_2SO_4; *Sodium Hydroxide Lot#* 100108 -*NaOH; Hydrochloric Acid Lot#* 092006-*HCl; Sodium Hydroxide and Zinc Acetate Lot#* 100108-$(CH_3COO)_2ZN/NaOH$. What time was preservative added to sample(s)? _____

Client ID	pH	Date	Initials
601(7) WWT TOT	<2	9/6/11	[illegible]
601(7) WWT TOT DUP	<2	"	"
601(8) WWT TOT	<2	"	"

TestAmerica Cooler Receipt Form/Narrative
North Canton Facility

Client ID	pH	Date	Initials

Cooler #	Temp. °C	Method	Coolant

Discrepancies Cont'd:

Login Sample Receipt Checklist

Client: Duke Energy Corporation

Job Number: 240-3529-1

Login Number: 3529

List Source: TestAmerica North Canton

List Number: 1

Creator: Maddux, Ann

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	N/A	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	N/A	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	19.9
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: Duke Energy Corporation

Job Number: 240-3529-1

Login Number: 3529
List Number: 1
Creator: Chea, Vanda

List Source: TestAmerica Pensacola
List Creation: 09/10/11 11:43 AM

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	N/A	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	N/A	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	N/A	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	True	